

shp 20 or 21/05

Dart Aerospace Ltd.

Date: Thursday, 15/05/2008 2:33:42 PM
User: Linda Lacelle

Process Sheet











Customer : CU-DAR001 Dart Helicopters Services Drawing Name : AFT X-TUBE EXT HEIGHT(-013)
Job Number : 39308
Estimate Number : 10563
P.O. Number :
This Issue : 15/05/2008 S.O. No. :
Prsht Rev. : NC Part Number : D205596107
First Issue : / / Type : LANDING GEAR Drawing Number : D205596107
Previous Run : 38352 Project Number : N/A
Written By : Drawing Revision :
Checked & Approved By : Material :
Comment : Est Rev:D 05.03.21 Added bending procedure KJ/JLM Due Date : 21/05/2008 Qty: 1 Um: Each
Est Rev:E 08-01-10 ECN 1075 DD

Additional Product

Job Number:



DART		TEL.: 1-613-632-3336 FAX: 1-613-632-4443	
TRANSPORT CANADA APPROVAL # 09-89			
P/N	D205-596-103	CHG	CHG002
DESC.	Crosstube Aft Extended	STC	SH03-6
LOT	B36066	STC	SR01742NY
MODEL	205/212	STC	
MADE IN CANADA			

Seq. #:	Machine Or Operation:	Description :								
1.0	DC	DOCUMENT CONTROL								
<div><div></div><div></div></div> <p>Comment: DOCUMENT CONTROL</p> <p>Photocopy D205-594 bluefile & type labels per PPP D205-596-107 CHG002</p> <p>JUD 08.5.15</p>										
2.0	D205596103	Crosstube Aft Extended								
<div><div></div><div></div></div> <p>Comment: Qty.: 1.0000 Each(s)/Unit Total : 1.0000 Each(s)</p> <p>Pick:</p> <table><thead><tr><th>Qty</th><th>Part number</th><th>Description</th><th>Batch</th></tr></thead><tbody><tr><td>1 x</td><td>D205-596-103</td><td></td><td>B 36006</td></tr></tbody></table> <p>cut to 31" to make D205-596-107</p> <p>EL 8-5-16</p>			Qty	Part number	Description	Batch	1 x	D205-596-103		B 36006
Qty	Part number	Description	Batch							
1 x	D205-596-103		B 36006							
3.0	QC15	DIMENSIONAL CHECK OF X-TUBES								
<div><div></div><div></div></div> <p>Comment: DIMENSIONAL CHECK OF X-TUBES</p> <p>08-05-16 ①</p>										
4.0	CROSSTUBES	CROSSTUBES RESOURCE 1								
<div><div></div><div></div></div> <p>Comment: CROSSTUBES RESOURCE 1</p> <p>Mark 20.36" for cutting from tangential line in the straight section from D2890 as per Dwg wall template.</p> <p>EL 8-5-16</p>										
5.0	QC15	DIMENSIONAL CHECK OF X-TUBES								
<div><div></div><div></div></div> <p>Comment: DIMENSIONAL CHECK OF X-TUBES</p> <p>08-05-16 ①</p>										

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Date: Thursday, 15/05/2008 2:33:43 PM
User: Linda Lacelle

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: AFT X-TUBE EXT HEIGHT(-013)

Job Number: 39308

Part Number: D205596107

Job Number:



Seq. #:

Machine Or Operation:

Description :

6.0

CROSSTUBES

CROSSTUBES RESOURCE 1



Comment: CROSSTUBES RESOURCE 1

1-Cut as per Dwg D205-596-107

2-Deburr & Inspect for surface damage. Polish cut surface. Scribe part # and batch # on one end of tube.

4-5-16

EL/MM

7.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

8 08/05/16 (1)

8.0

HAND FINISHING1

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1

Touch up ends of the tube with Chemical Conversion Coat per QSI 005 4.1

ml 08 05 16 (1)

9.0

QC3

INSPECT POWDER COAT/CHEMICAL CONVERSION



Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION

8 08/05/20 (1)

10.0

SPRAY PAINTING

SPRAY PAINTING



Comment: SPRAY PAINTING

1-Prime inside and outside with Immron per QSI 005 4.2

NIA

11.0

QC14

INSPECT SPRAY PAINT



Comment: Inspect Spray Paint

NIA

12.0

D3595063530

RUBBER CUSHION



Comment: Qty.: 4.0000 Each(s)/Unit Total : 4.0000 Each(s)

RUBBER CUSHION

batch _____

NIA

13.0

MS2192028

Clamp(per MIL-DTL-8783C)



Comment: Qty.: 4.0000 Each(s)/Unit Total : 4.0000 Each(s)

clamp(per MIL-DTL-8783C)

batch _____

NIA

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Drawing Name: AFT X-TUBE EXT HEIGHT(-013)

Job Number: 39308

Part Number: D205596107

Job Number:



Seq. #:

Machine Or Operation:

Description :

14.0

D29401

Support



Comment: Qty.: 2.0000 Each(s)/Unit Total : 2.0000 Each(s)

Pick:

Qty Part number

Description

Batch

2 D2940-1

Support

N/A

15.0

CROSSTUBES

CROSSTUBES RESOURCE 1



Comment: CROSSTUBES RESOURCE 1

1- Lightly scuff the bonded area using a 320 grit sand paper and clean the area with 41058 wash 'n' wipe

2- Apply magnobond 6398 as per dwg D205-596-107

Magnobond 6398 Batch: _____

EXP: _____

3-Install supports and clamps per Dwg D205-596-107. Torque clamps to 80-100 in lb. as per dwg

N/A

16.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

08-05-20

17.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and pack for shipping as per PPP D205-596-107

Location: _____

PPP Rev: _____

D

8/5/20

SD

18.0

QC21

FINAL INSPECTION/W/O RELEASE



Comment: FINAL INSPECTION/W/O RELEASE

08/05/2008

Job Completion



MF 08-05-20

Dart Aerospace Ltd

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PARTS LIST:

Qty	Part Number	Description
X	D205-596-107	CROSSTUBE ASSEMBLY, HI-HI AFT
1	D6008-180	CROSSTUBE
2	D2940-1	SUPPORT
4	D3595-063-530	RUBBER CUSHION
4	MS21920-28	CLAMP
A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

GENERAL NOTES:

- 1) MATERIAL: MANUFACTURE FROM D6008-180
FINISHED LENGTH = 127.28 ± 0.02
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2
PAINT OUTSIDE PER DART 005 4.2
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: SCRIBE DART PART NUMBER AND BATCH NUMBER IN THIS AREA WITH
VIBRATING STYLUS
- 7) WEIGHT: 50 lbs
- 8) PART IS SYMMETRIC ABOUT CENTERLINE
- 9) BEND PROGRESSIVELY WITH A MINIMUM OF 3 PASSES. MAXIMUM TUBE FLATTENING DUE TO
BENDING IS 6% BASED ON O.D.
- 10) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE
OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS
SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT
LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 11) APPLY A 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2940-1 THAT
WILL BE IN CONTACT WITH THE CROSSTUBE. LET CURE FOR 12 HOURS AFTER INSTALLATION
AND PRIOR TO PACKAGING.
- 12) INSTALL MS21920-28 CLAMPS WITH D3595-063-530 RUBBER CUSHIONS TO SECURE D2940-1
SUPPORT ON THE TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE
CROSSTUBE SUPPORT.
**NOTE: IT IS ACCEPTABLE TO SUBSTITUTE MS21920-28 CLAMPS WITH LONGER OR SHORTER
MS21920-XX CLAMPS TO ACCOMMODATE VARYING DIAMETERS. ENSURE THERE IS A MINIMUM OF
1.5 THREADS IN SAFETY ON THE NUTS.**
- 13) TORQUE CLAMPS 80 TO 100 IN-LB

10 29308

08-01-16 W.P.

B	SUPPORT NOW MAGNOBONDED; REMOVE D2856-600-1009 ABRASION STRIP; UPDATED NOTES; ADDED D3595-063-530 CUSHION	MB	07.12.03
A	NEW ISSUE	DS	02.11.20
REV.	DESCRIPTION	BY	DATE
DESIGN	<i>4</i>	DART AEROSPACE LTD	
DRAWN	<i>1</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>PH</i>	DRAWING NO.	REV. B
MFG. APPR.	<i>PH</i>	D205-596-107	SHEET 1 OF 2
APPROVED	<i>PH</i>	TITLE	SCALE
DE APPR.	<i>PH</i>	CROSSTUBE ASSEMBLY, HI-HI AFT	NTS
DATE	07.12.03	COPYRIGHT © 2002 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

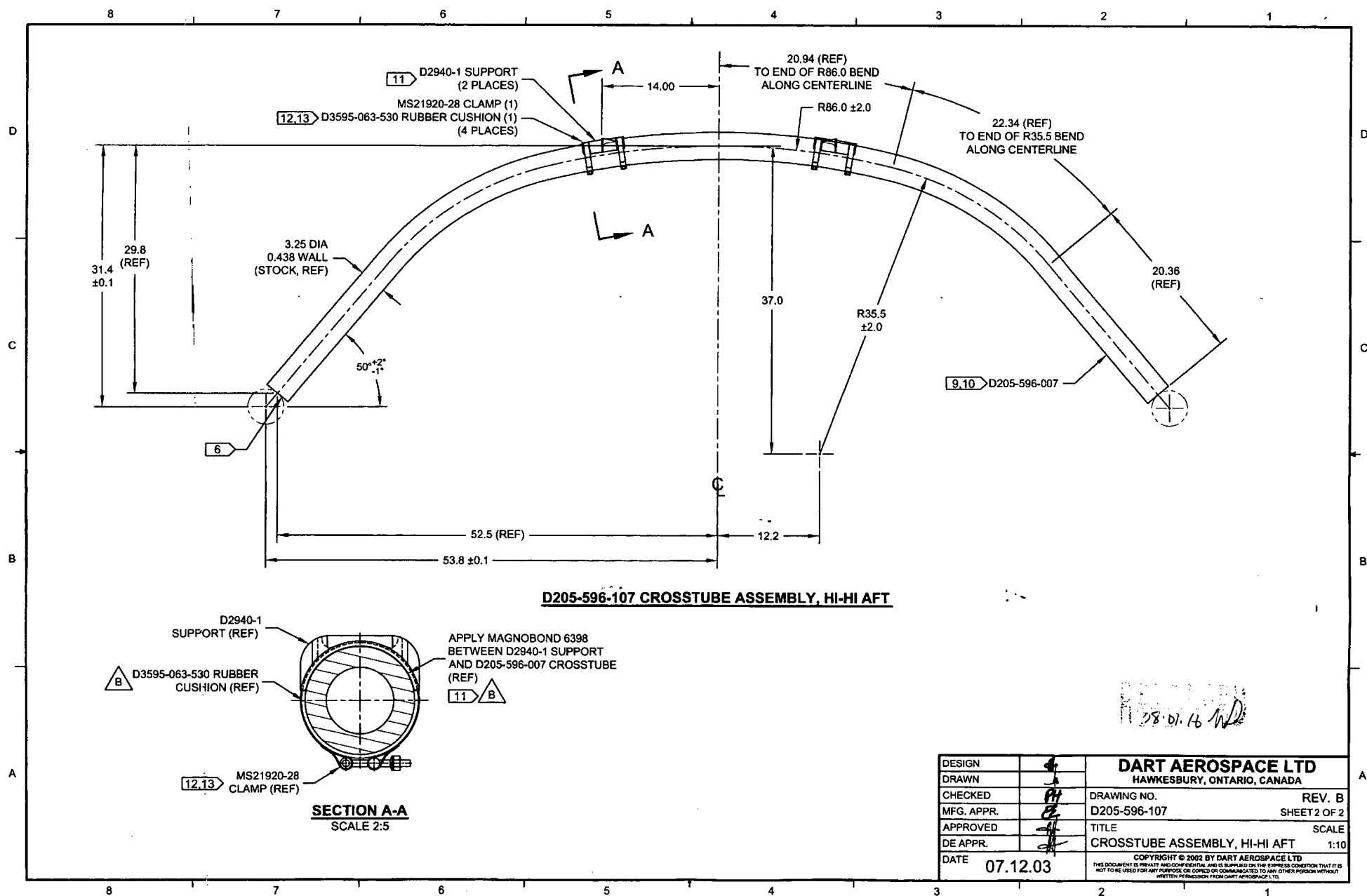
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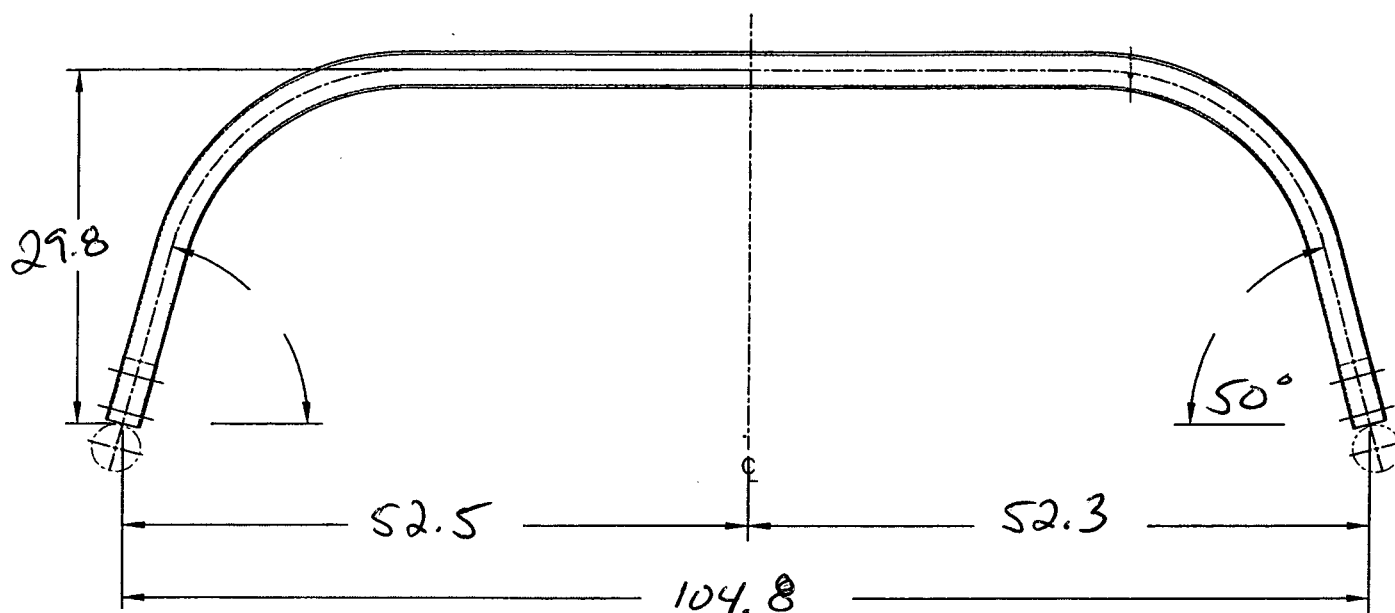
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DART AEROSPACE LTD	Work Order: 39308	
Description: Crosstube High-High Aft	Part Number: D205-596-107	
Inspection Dwg: D205-596-107 Rev: B		Page 1 of 1

Required Dimension	Min	Max
Height	29.7	29.9
1/2 Span	52.4	52.6
Angle	49	52
Total Span	104.8	105.2



Comments

QC15 Inspection	<i>[Signature]</i> 08-05-16
Date	

Rev	Date	Change	Revised by	Approved
A	07.02.06	New Issue	KJ/JM	<i>[Signature]</i>
B	08.04.21	Dwg Rev updated	KJ/JM	